

Fig.1A

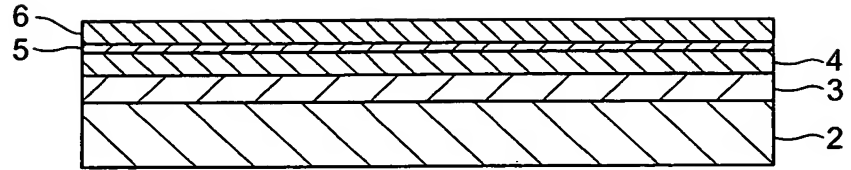


Fig.1B

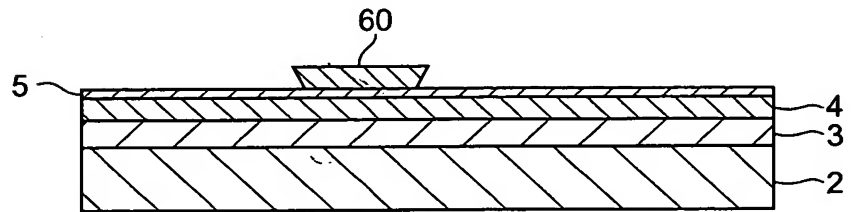


Fig.1C

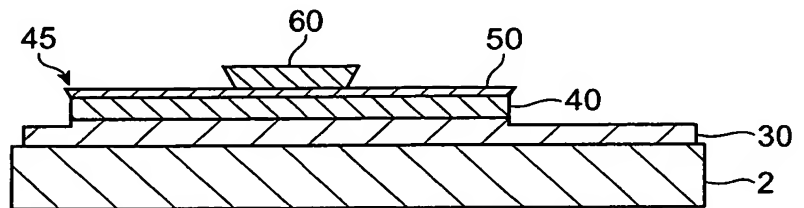


Fig.1D

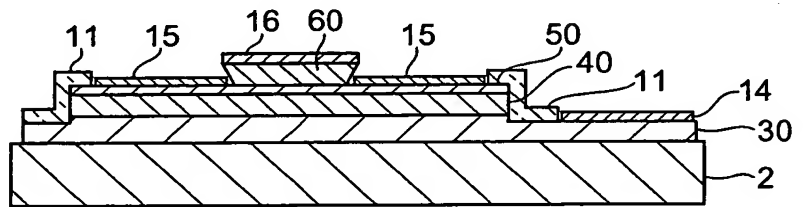


Fig.1E

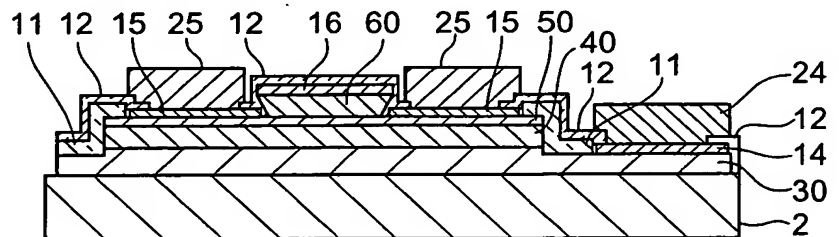
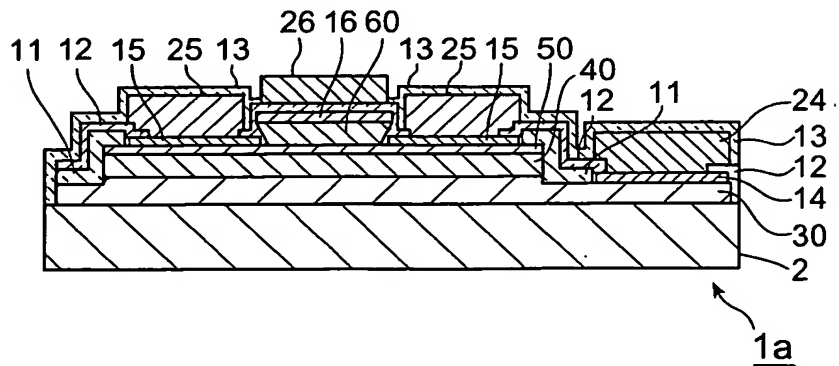


Fig.1F



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Fig.2

FILM NAME	MATERIALS	CONDUCTIVE TYPE	DOPANT	CARRIER CONCENTRATION (cm ⁻³)	FILM THICKNESS (nm)
EMITTER FILM 6	InP	n	Si	$4\sim 20 \times 10^{18}$	250
BASE FILM 5	InGaAs	p ⁺	Zn	4×10^{19}	50
COLLECTOR FILM 4	InGaAs	n	Si	5×10^{16}	500
SUBCOLLECTOR FILM 3	InGaAs	n ⁺	Si	1×10^{19}	300

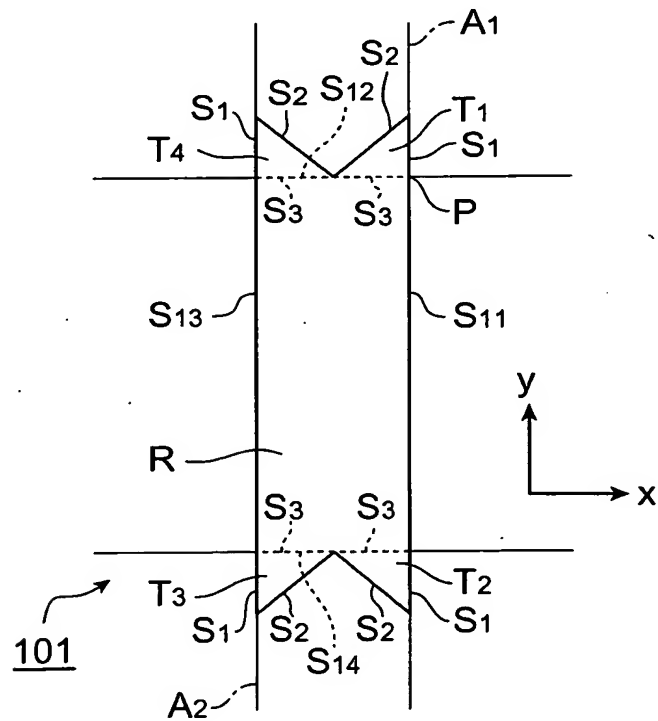
Fig.3

Fig.4

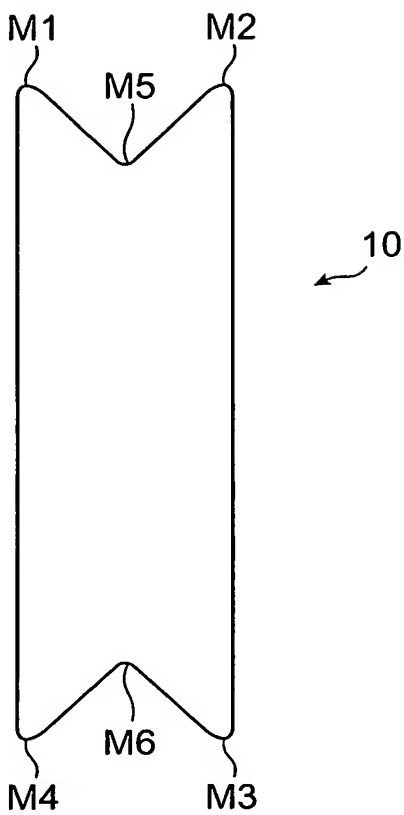
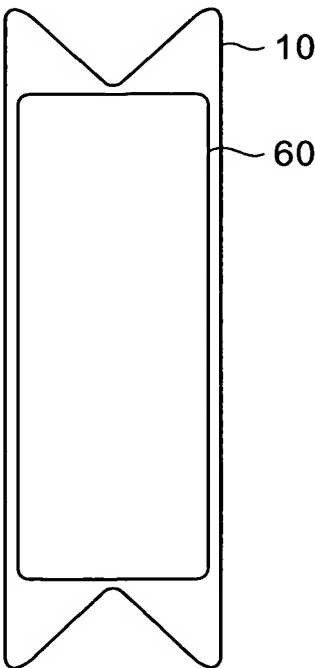


Fig.5



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Fig.6A

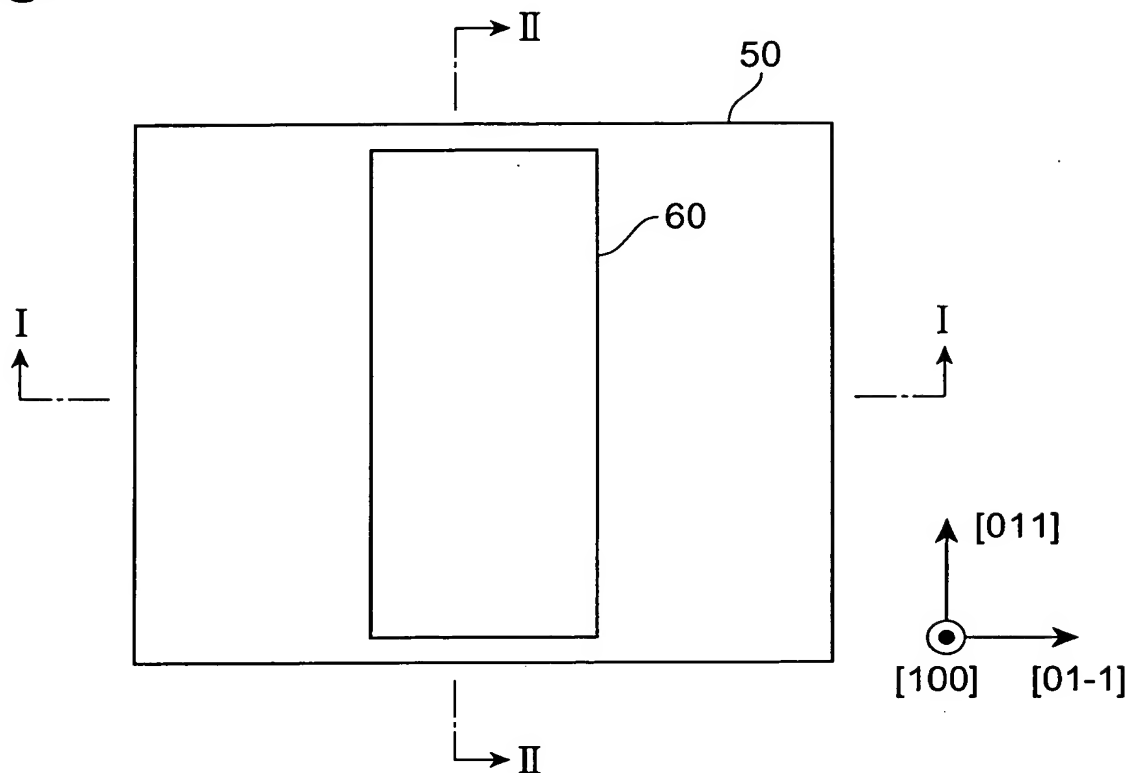


Fig.6B

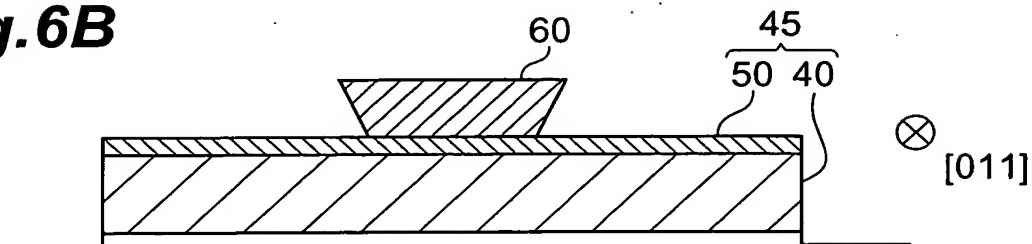


Fig.6C

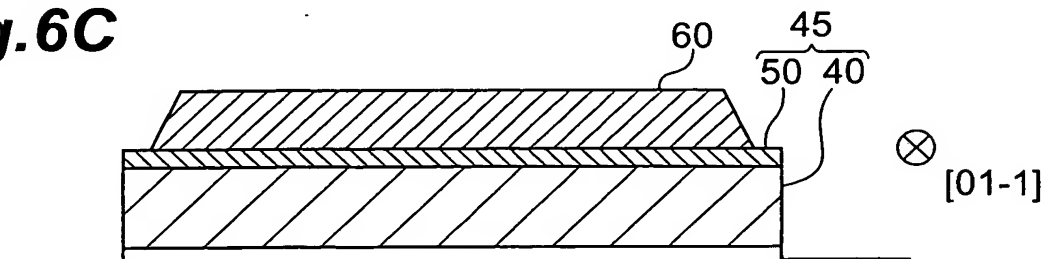


Fig.7A

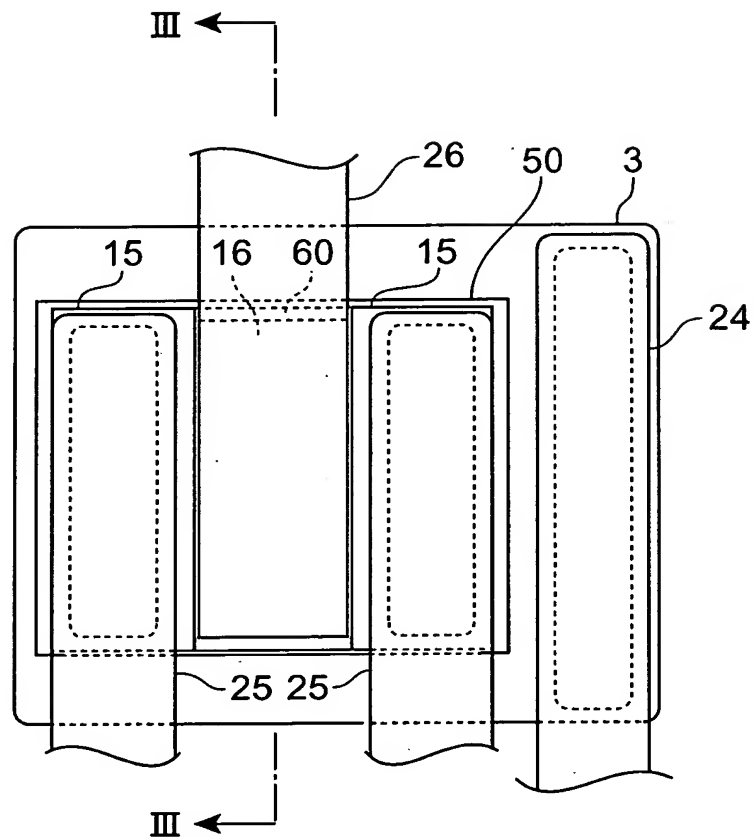
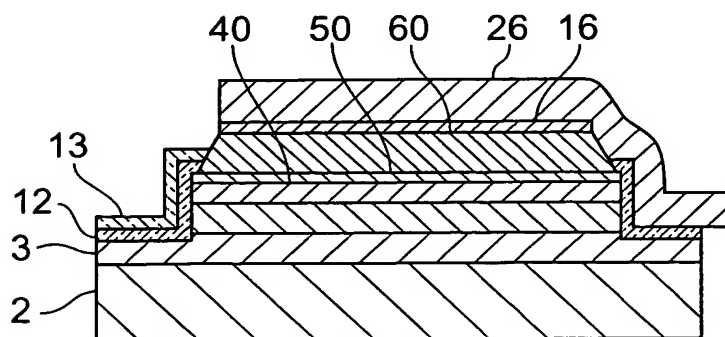


Fig.7B



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Fig.8A

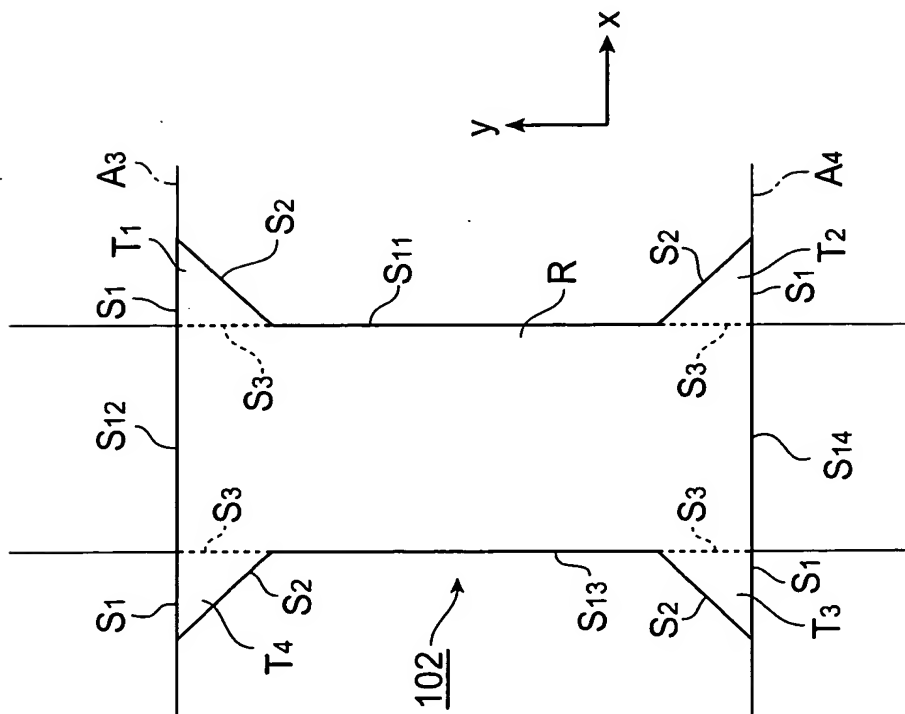


Fig.8B

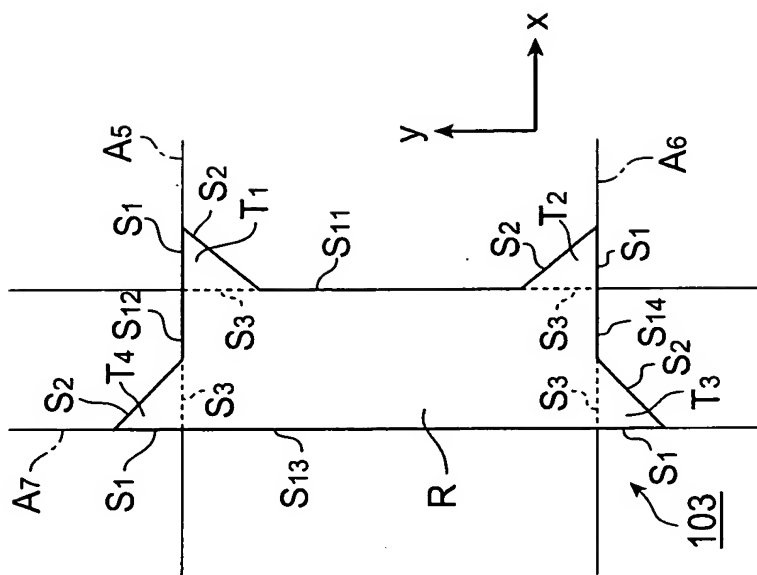


Fig.9A

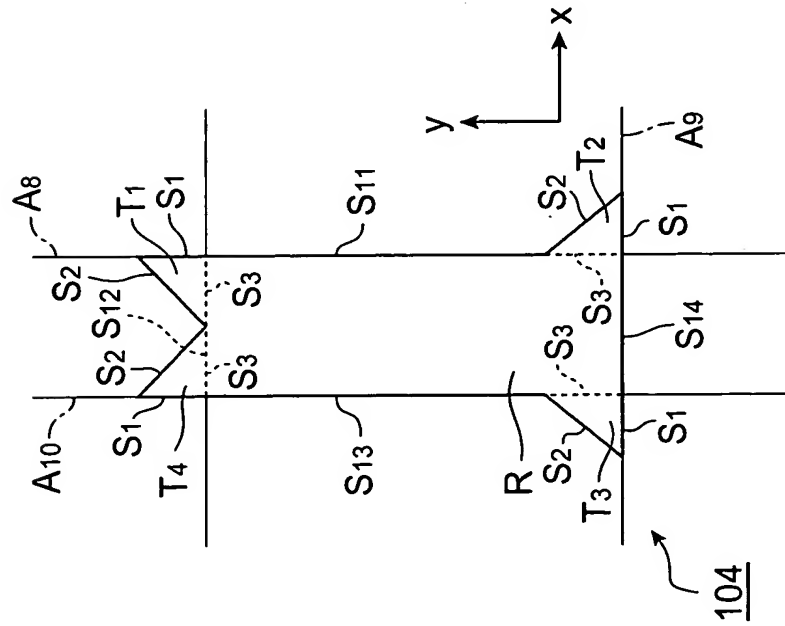


Fig.9B

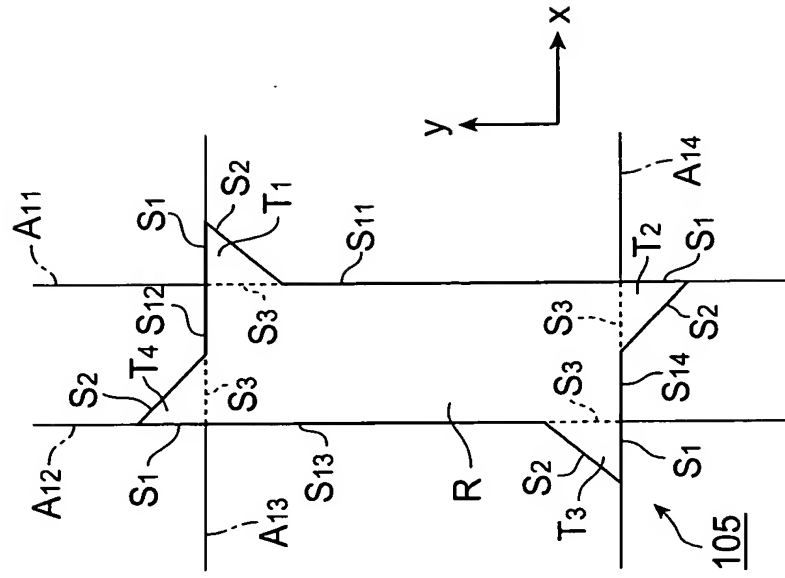
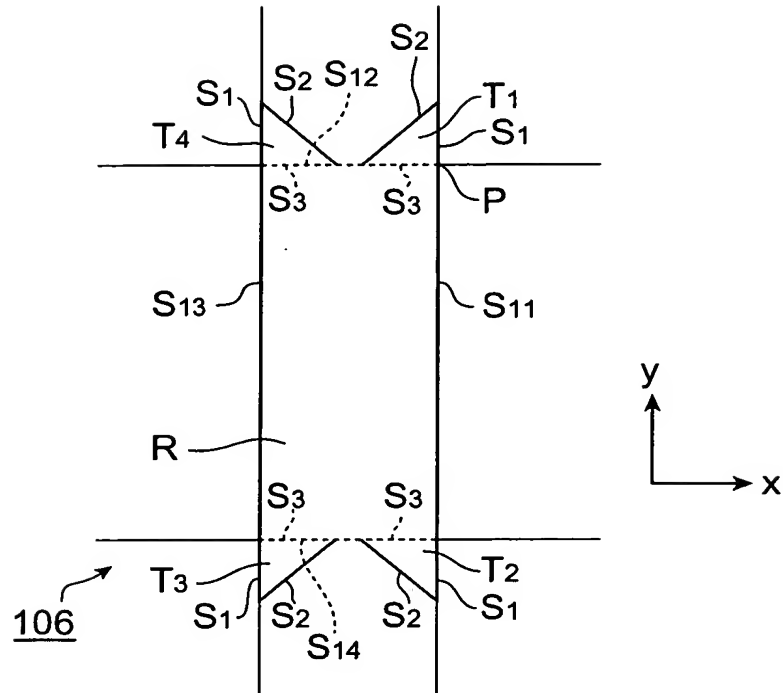
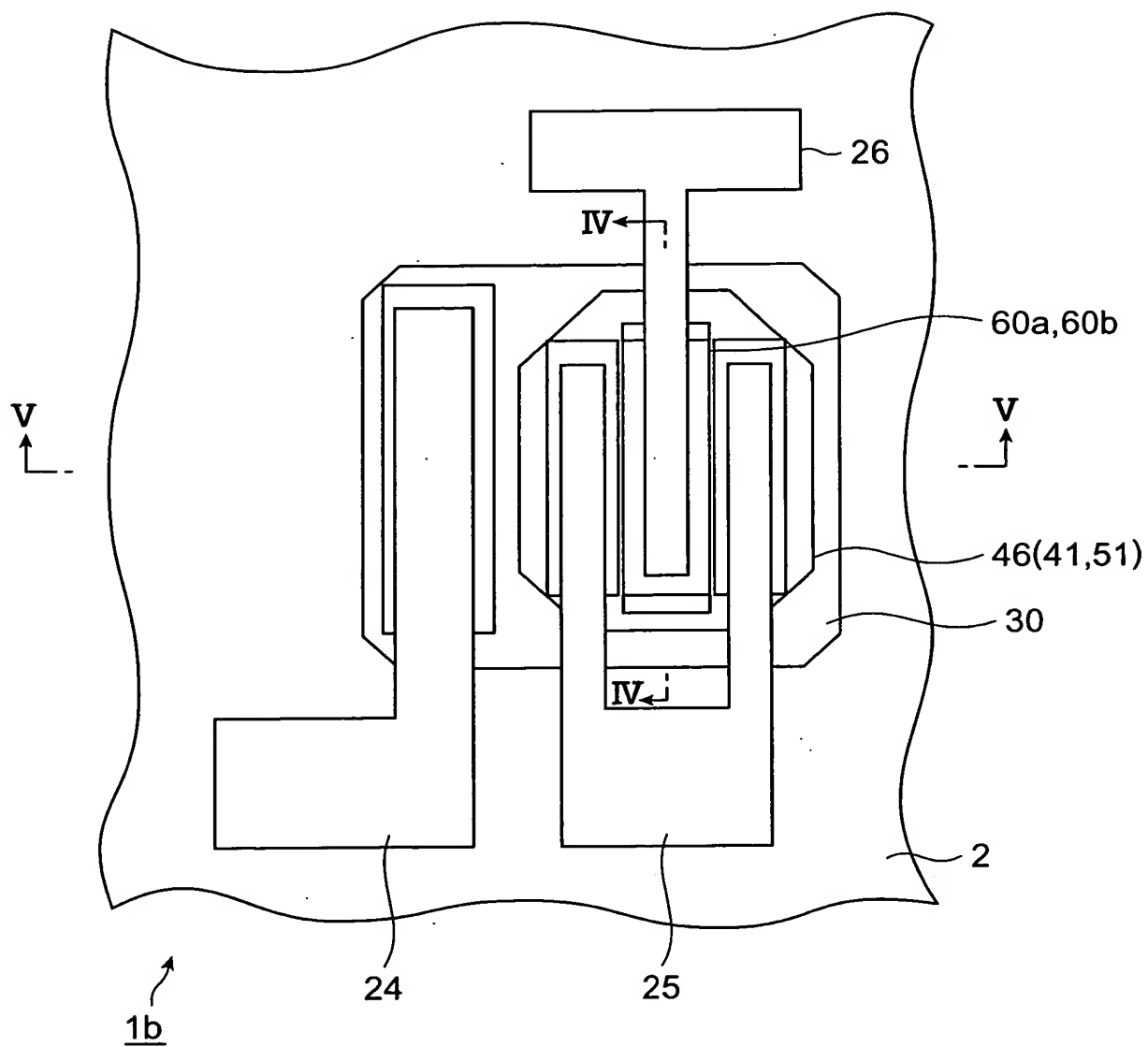


Fig.10



10026950.122704

Fig.11



10026950.122701

Fig. 12B

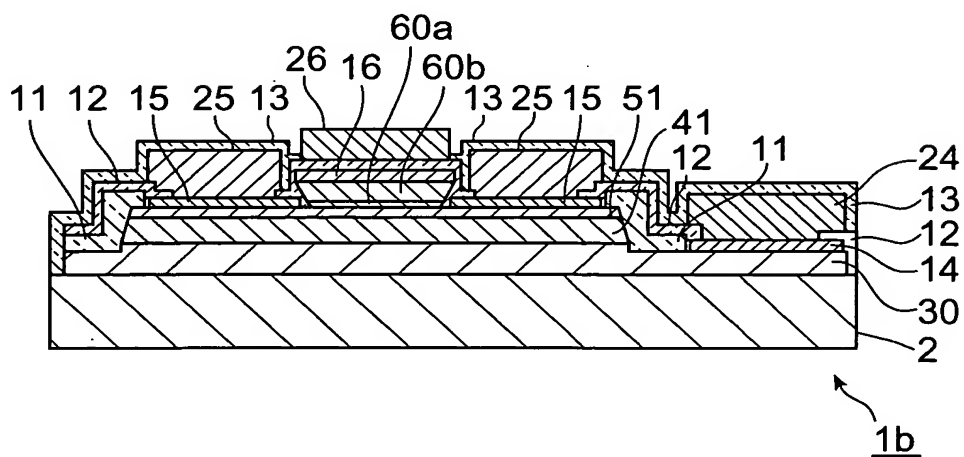


Fig.13A

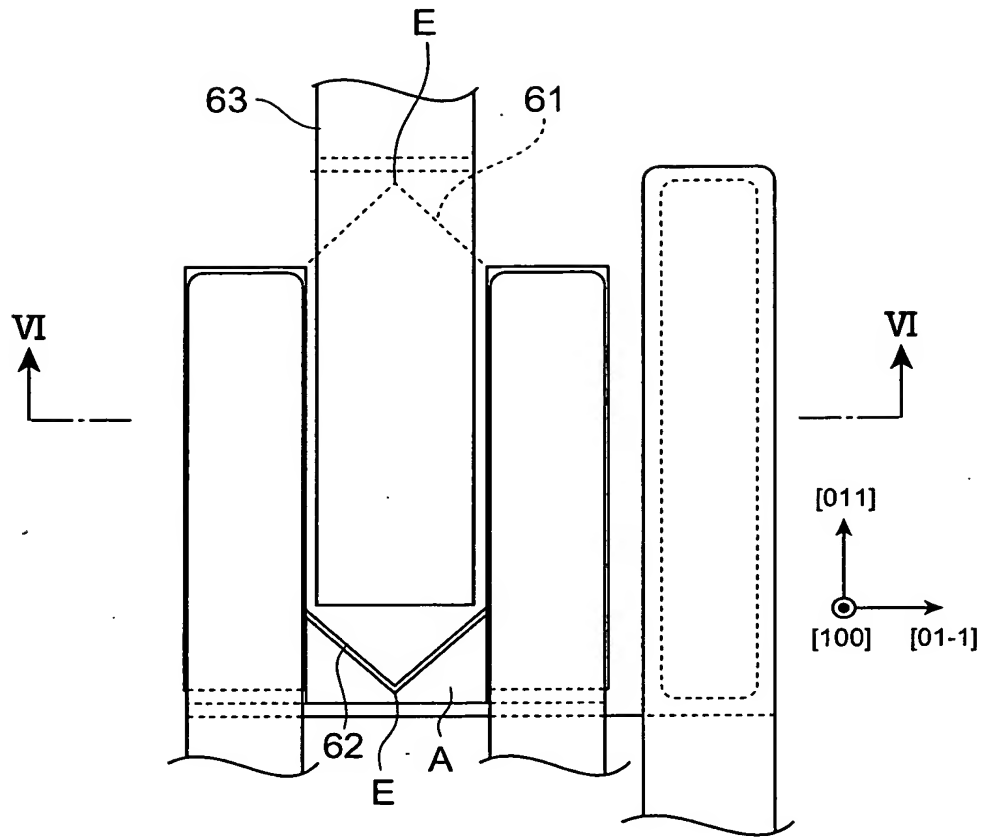


Fig.13B

